Section II Soil and Site Information PAGE 1 of 13

HYDRIC SOIL INTERPRETATIONS HYDRIC SOILS LIST Hettinger County, North Dakota

In this section, hydric soils are defined and described and the hydric soils in the survey area are listed. The three essential characteristics of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology (Cowardin and others, 1979; U.S. Army Corps of Engineers, 1987; National Research Council, 1995; Tiner, 1985). Criteria for each of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). These soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 1995). These criteria are used to identify a phase of a soil series that normally is associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (USDA, 1999) and "Keys to Soil Taxonomy" (USDA, 1998) and in the "Soil Survey Manual" (USDA, 1993).

If soils are wet enough for a long enough period to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils in this survey area are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and others, 1996).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

Map units in the Hydric Soil Interpretations table meet the definition of hydric soils and, in addition, have at east one of the hydric soil indicators. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (National Research Council, 1995; Hurt and others, 1996).

Map units that are made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units made up of nonhydric soils may have inclusions of hydric soils in the lower positions on the landform.

These map units, in general, do not meet the definition of hydric soils because they do not have one of the hydric soil indicators. A portion of these map units, however, may include hydric soils. Onsite investigation is recommended to determine whether hydric soils occur and the location of the included hydric soils.

				Hydric soils criteria				
Map symbol and map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria		
2:				0=2.2				
HEIL SILTY CLAY LOAM	HEIL BELFIELD	Yes No	depression	2B3,3	YES	NO 	YES	
	RHOADES	No						
	ARNEGARD	No						
3:	DAGLUM	No						
DIMMICK SILTY CLAY	DIMMICK	Yes	depression	2B3,3	YES	NO	YES	
	HEIL	Yes	depression	2B3,3	YES	NO	YES	
4	REGAN	Yes	flat	2B3,3	YES	NO	YES	
4: GRAIL CLAY LOAM, 1 TO 3 PERCENT SLOPES	GRAIL	No						
	SAVAGE	No						
	BELFIELD DAGLUM	No No						
	LAWTHER	NO No						
	RHOADES	No						
5C: WAYDEN SILTY CLAY, 2	WAYDEN	No						
TO 9 PERCENT SLOPES	MOREAU	No						
	CABBA	No						
	BELFIELD	No						
	DAGLUM	No						
	LAWTHER RHOADES	No No						
6B: VEBAR-PARSHALL FINE SANDY LOAMS, 1 TO 6	VEBAR	No						
PERCENT SLOPES							Į	
	PARSHALL	No						
	TALLY FLASHER	No No						
	SHAMBO	No						
	ARNEGARD	No						
	YEGEN	No						
7C:	CABBA	No						
VEBAR-FLASHER FINE SANDY LOAMS, 3 TO 9 PERCENT SLOPES	VEBAR	No]	
TERCENT SHOTES	FLASHER	No						
	PARSHALL	No						
	BEISIGL	No						
	AMOR ARNEGARD	No						
	CABBA	No No						
	FARNUF	No						
7D: VEBAR-FLASHER COMPLEX, 9 TO 20 PERCENT SLOPES	VEBAR	No						
2701 70	FLASHER	No						
	BEISIGL	No						
	LIHEN	No						
	PARSHALL AMOR	No No						
	BELFIELD	No						
	CABBA	No						

Map symbol and				Hydric soils criteria				
map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria		Meets ponding criteria	
8: BELFIELD-DAGLUM CLAY LOAMS, 1 TO 3 PERCENT SLOPES	BELFIELD	No						
SLOPES	DAGLUM	No						
	SAVAGE	No						
	RHOADES	No						
	LAWTHER	No No						
	GRAIL REGENT	No No						
	STRAW	No						
8B: BELFIELD-DAGLUM CLAY LOAMS, 3 TO 6 PERCENT SLOPES	BELFIELD	No						
, BESTES	DAGLUM	No						
	SAVAGE	No						
	REGENT	No						
	SHAMBO HARRIET	No Yes	depression	2B3,3	YES	NO	YES	
	HEIL	Yes	depression	2B3,3 2B3,3	YES	NO NO	YES	
	RHOADES	No						
9: REGENT SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	REGENT	No						
SHOTES	SAVAGE	No						
	MOREAU	No						
	SEN	No						
	BELFIELD GRAIL	No No						
	CHAMA	No						
9B: REGENT SILTY CLAY LOAM, 3 TO 6 PERCENT SLOPES	REGENT	No						
220122	MOREAU	No						
	SAVAGE	No						
	AMOR	No						
	BELFIELD CABBA	No No						
	DAGLUM	No						
9C: REGENT-CABBA COMPLEX, 6 TO 9 PERCENT SLOPES	MOREAU	No						
	REGENT	No						
	CABBA	No						
	WAYDEN SAVAGE	No No						
	AMOR	No No						
	DAGLUM	No						
	BELFIELD	No						
10B: BEISIGL-LIHEN LOAMY FINE SANDS, 1 TO 6 PERCENT SLOPES	BEISIGL	No						
	LIHEN	No						
	BLANCHARD	No						
	FLASHER	No						
	VEBAR	No						
	PARSHALL ARNEGARD	No No						
	CABBA	No						

Man gumbal and				Hydric soils criteria				
Map symbol and map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria		Meets ponding criteria	
11: MOREAU SILTY CLAY, 1 TO 3 PERCENT SLOPES	MOREAU	No						
	REGENT	No						
	LAWTHER	No						
	WAYDEN SAVAGE	No No						
	CABBA	No						
	DAGLUM	No						
11B: MOREAU SILTY CLAY, 3 TO 6 PERCENT SLOPES	MOREAU	No						
10 0 TERCENT SECTES	WAYDEN	No						
	REGENT	No						
	DAGLUM	No						
	LAWTHER BELFIELD	No No						
	CABBA	No						
12B: DAGLUM-RHOADES LOAMS,	DAGLUM	No						
1 TO 6 PERCENT SLOPES	DUONDEC	No					l	
	RHOADES BELFIELD	No No						
	DOGTOOTH	No						
	MOREAU	No						
	SLICKSPOTS	No						
	EKALAKA	No						
13:	HARRIET	Yes	drainageway	2B3	YES	NO	NO	
LAWTHER SILTY CLAY, 1 TO 3 PERCENT SLOPES	LAWTHER	No						
	MOREAU	No				i		
	SAVAGE	No						
	BELFIELD	No						
	DAGLUM CABBA	No No						
	GRAIL	No						
14B: PARSHALL FINE SANDY LOAM, 1 TO 6 PERCENT	PARSHALL	No						
SLOPES	ARNEGARD	NT.C				 	l	
	AMOR	No No						
	VEBAR	No						
	SHAMBO	No						
	BELFIELD	No						
1 -	REGAN	Yes	drainageway	2B3	YES	NO	NO	
15: ARNEGARD LOAM, 1 TO 3 PERCENT SLOPES	ARNEGARD	No						
	PARSHALL	No						
	SHAMBO	No						
	GRAIL	No						
	BELFIELD VEBAR	No No						
	BOWDLE	No						
16: SHAMBO LOAM, 1 TO 3	SHAMBO	No						
PERCENT SLOPES	ARNEGARD	No					l	
	AMOR	No No						
	PARSHALL	No						
	SEN	No						
	STADY	No						
	SAVAGE	No						

Map symbol and				Hydric soils criteria				
map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria		Meets ponding criteria	
16B:								
SHAMBO LOAM, 3 TO 6 PERCENT SLOPES	SHAMBO	No						
	ARNEGARD	No						
	SAVAGE	No						
	STADY	No						
	DAGLUM	No						
	GRAIL	No						
17:	MORTON	No						
CHAMA SILT LOAM, 1 TO 3 PERCENT SLOPES	CHAMA	No						
	CABBA	No						
	GOLVA	No						
	SEN	No						
	AMOR	No						
	ARNEGARD	No						
1.70	BELFIELD	No						
17B: CHAMA SILT LOAM, 3 TO 6 PERCENT SLOPES	СНАМА	No						
	SEN	No						
	CABBA	No						
	GOLVA	No						
	DAGLUM	No						
	ARNEGARD	No						
1.00	SAVAGE	No						
17C: CHAMA-CABBA SILT LOAMS, 6 TO 9 PERCENT SLOPES	СНАМА	No]	
	CABBA	No						
	AMOR	No						
	SEN	No						
	MOREAU	No						
	SAVAGE	No						
	VEBAR	No						
18:	ARNEGARD	No						
AMOR LOAM, 1 TO 3 PERCENT SLOPES	AMOR	No						
	CHAMA	No						
	REEDER	No						
	FARNUF	No						
	ARNEGARD	No						
	DAGLUM	No						
	YEGEN	No						
18B: AMOR LOAM, 3 TO 6 PERCENT SLOPES	AMOR	No						
	SHAMBO	No						
	CHAMA	No						
	BELFIELD	No						
	VEBAR	No						
	BOWDLE	No						
	CABBA	No						

Map symbol and				Hydric soils criteria				
map symbol and map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria	
18C: AMOR-CABBA LOAMS, 6 TO 9 PERCENT SLOPES	AMOR	No						
I I	CABBA	No						
	CHAMA	No						
	ARNEGARD REGENT	No No						
	BELFIELD	No						
	FLASHER	No						
	VEBAR	No]	
18D: AMOR-CABBA LOAMS, 9 TO 15 PERCENT SLOPES	AMOR	No						
	CABBA	No						
	CHAMA	No						
	SHAMBO	No						
	REGENT	No No						
	FLASHER ARNEGARD	No No						
	BELFIELD	No						
19F: CABBA-CHAMA SILT	CABBA	No						
LOAMS, 15 TO 70 PERCENT SLOPES		INO						
	AMOR	No						
	CHAMA FLASHER	No No						
	VEBAR	No						
	REGAN	Yes	drainageway	2B3	YES	NO	NO	
	LALLIE	Yes	depression	3,2B3	YES	NO	YES	
	SAVAGE	No]	
20F: FLASHER-BEISIGL- PARSHALL COMPLEX, 6 TO 70 PERCENT SLOPES, EXTREMELY STONY	FLASHER	No						
	BEISIGL	No						
	LIHEN	No						
	PARSHALL VEBAR	No No						
	CABBA	No						
	SHAMBO	No						
	AMOR	No						
	ARNEGARD	No						
21B: RUSO FINE SANDY LOAM, 1 TO 6 PERCENT SLOPES	RUSO	No						
	PARSHALL	No						
	BOWDLE	No						
	LEHR	No No						
	WABEK SHAMBO	No No						
	EKALAKA	No						
22:	BOWDLE	No						
	LEHR	No						
		1	1		1			
	SHAMBO	No						
	ARNEGARD	No						
		1	 	 	1		ł	

				Hydric soils criteria				
Map symbol and map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria		Meets ponding criteria	
22B: BOWDLE LOAM, 3 TO 6 PERCENT SLOPES	BOWDLE	No						
TERCENT SHOLES	AMOR	No						
	SHAMBO	No						
	LEHR	No						
	YEGEN MANNING	No No						
	WANAGAN	No						
							J	
24: STRAW LOAM, 0 TO 3 PERCENT SLOPES	STRAW	No						
TERCENT SHOTES	KORELL	No						
	KORCHEA	No						
	ARNEGARD	No						
	LALLIE RHOADES	Yes No	oxbow	2B3,3	YES	NO I	YES	
	BELFIELD	No						
25B: LIHEN LOAMY FINE SAND,	LIHEN	No				 		
1 TO 6 PERCENT SLOPES		1					Í	
	MANNING	No						
	BEISIGL	No No						
	PARSHALL ARNEGARD	No						
	VEBAR	No						
	AMOR	No					J	
26: REGAN LOAM, 0 TO 3 PERCENT SLOPES	REGAN	Yes	drainageway	2B3	YES	NO	NO	
TERCENT SHOTES	ROLISS ARVESON	Yes Yes	depression depression	3,2B3 2B3	YES YES	NO NO	YES NO	
	WYNDMERE	No		202				
	HEGNE HARRIET	Yes Yes	flood plain drainageway	2B3 3,2B3	YES YES	NO NO	NO YES	
	HEIL	Yes	depression	2B3,3	YES	NO NO	YES	
27E:		100	aopi obbion	223,3	120	110	1 1 1 2 2	
SINNIGAM-DAGLUM COMPLEX, 1 TO 25 PERCENT SLOPES	SINNIGAM	No						
I BRODINI BBOLES	DAGLUM	No						
	CABBA	No					l	
	RHOADES	No						
	FELOR MOREAU	No						
	SAVAGE	No No						
	WAYDEN	No						
28:							_	
HARRIET LOAM	HARRIET	Yes Yes	flat flat	2B3 2B3,3	YES YES	NO NO	NO YES	
	MCKENZIE BELFIELD	No	llat	ZB3,3 	YES	NO	YES	
	RHOADES	No						
	DAGLUM	No						
	REGAN	Yes	flat	2B3	YES	NO	NO	
29: KORCHEA LOAM, 0 TO 3	KORCHEA	No						
PERCENT SLOPES	VELVA	No						
	LALLIE	Yes	depression	3,2B3	YES	NO	YES	
	STRAW	No						
	SHAMBO	No						
	BELFIELD	No						
	HARRIET	Yes	flat	2B3	YES	NO	NO	

Map symbol and				Ну	ydric soils o	criteria	
map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
30: STRAW LOAM, CHANNELED	CHANNEL STRAW	Yes No		4	NO 	YES	NO
	KORCHEA BELFIELD	No No				 	
	GRAIL DIMMICK DAGLUM	No Yes No	depression	2B3,3	YES	NO 	YES
	HARRIET	Yes	flat	2B3 	YES 	NO 	NO
33: SAVAGE CLAY LOAM, 1 TO 3 PERCENT SLOPES	SAVAGE	No					
J TERCENT SHOTES	GRAIL BELFIELD	No No					
	SHAMBO	No					
	YEGEN REGENT	No No					
	DAGLUM	No					
33B: SAVAGE CLAY LOAM, 3 TO 6 PERCENT SLOPES		No					
	SHAMBO	No					
	REGENT	No					
	BELFIELD AMOR	No No					
	DAGLUM	No					
	MOREAU	No					
34F: BRANDENBURG-CABBA- SAVAGE COMPLEX, 6 TO 70 PERCENT SLOPES	BRANDENBURG	No					
	CABBA	No					
	ARNEGARD	No					
	SAVAGE SEARING	No No					
	AMOR	No					
	CHAMA	No					
	DAGLUM	No					
35F:	RINGLING	No					
CABBA-AMOR-SAVAGE COMPLEX, 9 TO 70 PERCENT SLOPES, EXTREMELY STONY	CABBA	No					
	AMOR	No					
	SAVAGE	No					
	REGENT FLASHER	No No					
	CHAMA	No					
	MOREAU	No					
	SINNIGAM	No					
36:	DAGLUM	No					
VELVA FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES	VELVA	No					
	KORCHEA	No					
	BANKS HAVRELON	No No					
	LALLIE	Yes	depression	3,2B3	YES	NO	YES
	BELFIELD	No					
	STRAW	No					

Map symbol and				н	ydric soils (criteria	
map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria	
38: BELFIELD-GRAIL CLAY LOAMS, 0 TO 3 PERCENT	BELFIELD	No					
SLOPES SLOPES	GD 3 TT						
	GRAIL	No					
	SAVAGE	No					
	DAGLUM	No					
	REGENT	No					
	FARNUF	No					
	LAWTHER	No					
	RHOADES	No					
39: BELFIELD-GRAIL CLAY LOAMS, SALINE, 0 TO 3 PERCENT SLOPES	BELFIELD	No					
TERCEIVI DECLED	GRAIL	No				l	
	SAVAGE,	No					
	SALINE	1.0				İ	
	DAGLUM, SALINE	No					
	REGENT	No					
	HARRIET	Yes	flat	2B3	YES	NO	NO
	LAWTHER,	No					
	SALINE						[
	RHOADES, SALINE	No					
40:							
DUMPS-PITS COMPLEX	DUMPS-PITS	No					
	CABBA	No					
	LEHR	No					
	WABEK	No					
41B: EKALAKA FINE SANDY LOAM, 1 TO 6 PERCENT SLOPES	EKALAKA	No					
550155	YEGEN	No					
	PARSHALL	No					
	DESART	No					
	RHOADES	No					
	VEBAR	No					
42B: FELOR LOAM, TERRACE, 1		No					
TO 6 PERCENT SLOPES	YEGEN	No					
	FLAXTON	No					
	REGENT	No					l
	MOREAU	No					
	PARSHALL	No					
	BOWDLE	No					
43:							1
LEFOR FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES	LEFOR	No					
	BELFIELD	No					
	YEGEN	No					
	VEBAR	No					
	SAVAGE	No					
	EKALAKA	No					

Map symbol and				Ηλ	dric soils	criteria	
map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria		Meets ponding criteria
43B: LEFOR FINE SANDY LOAM,	LEFOR	No					
3 TO 6 PERCENT SLOPES	YEGEN	No					
	COHAGEN	No					
	VEBAR FLASHER	No No					
	SHAMBO	No					
	DAGLUM	No					
44: REEDER LOAM, 1 TO 3 PERCENT SLOPES	REEDER	No					
I DICERVI BEOLES	BELFIELD	No					
	SEN	No					
	YEGEN	No					
	CHAMA GRAIL	No No					
	VEBAR	No					
44B: REEDER LOAM, 3 TO 6	REEDER	No					
PERCENT SLOPES	SHAMBO	No					
	SEN	No					
	BELFIELD	No					
	CABBA	No					
	CHAMA	No No					
45B: FELOR LOAM, 1 TO 6	YEGEN FELOR	No					
PERCENT SLOPES	MA MOENT	No					
1	WAYDEN DAGLUM	No No					
	GRAIL	No					
	REEDER	No					
	SAVAGE	No					
46:	SHAMBO	No					
PARSHALL LOAM, MODERATELY WET, 1 TO 3 PERCENT SLOPES	PARSHALL	No					
2 LEVCENT SPORES	ARNEGARD	No					
	SHAMBO	No					
	REGAN	Yes	drainageway	2B3	YES	NO	NO
	BELFIELD	No					
47:	VEBAR	No					
REGENT-DAGLUM COMPLEX, 1 TO 3 PERCENT SLOPES	DAGLUM	No					
	REGENT	No					
	BELFIELD REEDER	No No					
	MOREAU	NO No					
	CHAMA	No					
	RHOADES	No					
47B: REGENT-DAGLUM COMPLEX, 3 TO 6 PERCENT SLOPES	DAGLUM	No					
J 10 0 I LINCEINI SLOFES	REGENT	No					
	MOREAU	No					
	BELFIELD	No					
	RHOADES CHAMA	No No					
1	CABBA	No No					

Map symbol and				Hydric soils criteria				
map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria	
48F: LEHR-SHAMBO-CABBA LOAMS, 6 TO 50	LEHR	No						
PERCENT SLOPES	MANNING	No						
	PARSHALL	No						
	SHAMBO	No						
	AMOR	No						
	CABBA	No						
	BOWDLE	No						
	ARNEGARD SAVAGE	No No						
49B:	SAVAGE	NO						
WATROUS-FELOR LOAMS, 1 TO 6 PERCENT SLOPES	WATROUS	No						
	FELOR	No						
	CABBA	No						
	DAGLUM	No						
	FARNUF	No			VEC			
50B:	HEIL	Yes	depression	2B3,3	YES	NO	YES	
YEGEN FINE SANDY LOAM, 1 TO 6 PERCENT SLOPES	YEGEN	No						
	PARSHALL	No				i		
	SHAMBO	No						
	AMOR	No						
	EKALAKA	No						
	CHAMA	No						
52B:	BELFIELD	No						
PARSHALL FINE SANDY LOAM, TERRACE, 1 TO 6 PERCENT SLOPES	PARSHALL	No]	
TERCENT SHOTES	MANNING	No						
	ARNEGARD	No						
	VEBAR	No						
	AMOR	No						
	BELFIELD	No]		
53B: LEHR-BOWDLE LOAMS, 1 TO 6 PERCENT SLOPES	LEHR	No						
10 0 I DICTIVI DICTID	BOWDLE	No						
	RUSO	No						
	AMOR	No						
	SHAMBO	No						
	WABEK	No						
	ARNEGARD	No						
54:	PARSHALL	No						
	BELFIELD	No						
	DAGLUM	No						
	RHOADES,	No						
	SALINE SAVAGE,	No						
	SALINE							
	GRAIL, SALINE	No						
	SLICKSPOTS	No			VEC			
	HARRIET REGENT	Yes No	flat	2B3 	YES	NO I	NO I	

				НУ	dric soils	criteria	
Map symbol and map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
55B: MOREAU SILTY CLAY, SALINE, 1 TO 6 PERCENT SLOPES	MOREAU	No					
	WAYDEN DAGLUM,	No No					
	SALINE	NO					
	REGENT, SALINE	No					
	BELFIELD, SALINE	No					
	SAVAGE, SALINE	No					
	HARRIET	Yes	flat	2B3	YES	NO	NO
56: PARSHALL LOAM, SALINE, 1 TO 3 PERCENT SLOPES	PARSHALL	No					
1 10 5 PERCENT SHOPES	ARNEGARD, SALINE	No					
	VEBAR SLICKSPOTS BELFIELD, SALINE	No No No		 	 	 	
	SHAMBO REGAN	No Yes	 drainageway	 2B3	 YES	 NO	 NO
57: DAGLUM-RHOADES LOAMS, SALINE, 1 TO 3 PERCENT SLOPES	DAGLUM	No					
	RHOADES BELFIELD,	No No		 			
	SALINE DOGTOOTH,	No					
	SALINE MOREAU SLICKSPOTS EKALAKA	No No No	 	 2D2 2	 VEC	 	 VEC
M-W:	HARRIET	Yes	flat	2B3,3	YES	NO	YES
MISCELLANEOUS WATER	MISCELLANEOUS WATER	Yes	depression	2B3,3	YES	NO	YES
W: WATER	WATER	Yes	depression	2B3,3	YES	NO	YES

All mapunits are displayed regardless of hydric status and are listed in alpha-numeric order by mapunit symbol. The "Hydric Soils Criteria" columns indicate the conditions that caused the mapunit component to be classified as "Hydric" or "Non-Hydric". These criteria are defined in "Hydric Soils of the United States" (USDA Miscellaneous Publication No. 1491, June, 1991). See the "Criteria for Hydric Soils" endnote to determine the meaning of these columns. Spot symbols are footnoted at the end of the table.

Map symbol and	Map symbol and			Ну	dric soils	criteria	
map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria		

FOOTNOTE: There may be small areas of included soils or miscellaneous areas that are significant to use and management of the soil; yet are too small to delineate on the soil map at the map's original scale. These may be designated as spot symbols and are defined in the published Soil Survey Report or the USDA-NRCS Technical Guide, Part II.

Areas mapped as water or any map unit that contains one of the following conventional symbols is considered a hydric soil map unit: marshes or swamps; wet spots; depressions; streams, lakes and ponds.

- 1. All Histosols except Folists, or
- 2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Aquisalids, Pachic subgroups, or Cumulic subgroups that are:
 - a. Somewhat poorly drained with a water table equal to 0.0 foot (ft) from the surface during the growing season, or
 - b. poorly drained or very poorly drained and have either:
 - (1) water table equal to 0.0 ft during the growing season if textures are coarse sand, sand, or fine sand in all layers within 20 inches (in),
 - or for other soils
 - (2) water table at less than or equal to 0.5 ft from the surface during the growing season if permeability is equal to or greater than 6.0 in/hour (h) in all layers within 20 in, or
 - (3) water table at less than or equal to 1.0 ft from the surface during the growing season if permeability is less than 6.0 in/h in any layer within 20 in. or
- 3. Soils that are frequently ponded for long duration or very long duration during the growing season, or
- 4. Soils that are frequently flooded for long duration or very long duration during the growing season.